

G. E. SMITH & C. HAMELL.
BOTTLE.

APPLICATION FILED APR. 24, 1908.

932,506.

Patented Aug. 31, 1909.

Fig. 1.

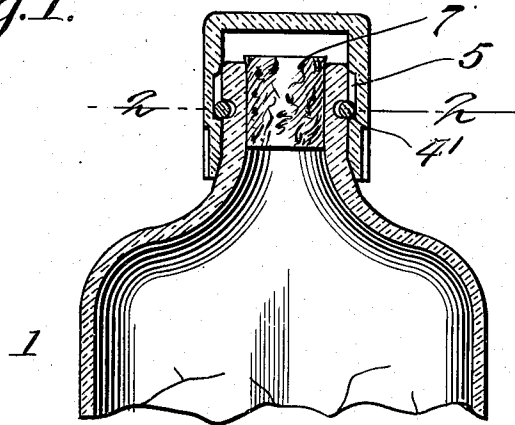


Fig. 2.

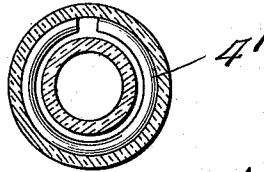


Fig. 4.

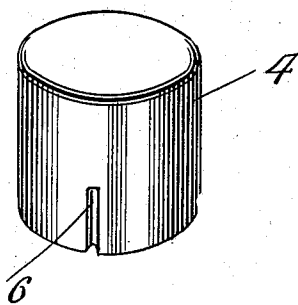
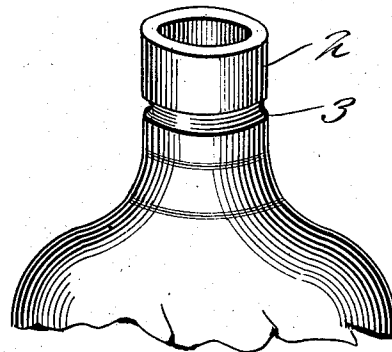


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

GEORGE E. SMITH AND CHARLES HAMELL, OF SHARON, PENNSYLVANIA.

BOTTLE.

932,506.

Specification of Letters Patent.

Patented Aug. 31, 1909.

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To all whom it may concern:

Be it known that we, GEORGE E. SMITH and CHARLES HAMELL, citizens of the United States, residing at Sharon, in the county of Mercer and State of Pennsylvania, have invented new and useful Improvements in Bottles, of which the following is a specification.

This invention relates to bottles and closures therefor, and the object of the invention is to provide a bottle with a cap or closure which is adapted to remain a permanent part of the bottle so as to prevent the fraudulent refilling of the bottle and to provide means for detecting attempts at refilling the bottle with imitation or inferior liquid.

With these objects in view the invention resides in the novel construction and arrangement of elements, hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a vertical transverse sectional view of the upper portion of a bottle constructed in accordance with the present invention and provided with the improved cap or closure. Fig. 2 is a horizontal sectional view upon the line 2—2 of Fig. 1. Fig. 3 is a detail perspective view of the upper portion of the bottle. Fig. 4 is a similar view of the cap or closure.

In the accompanying drawings the numeral 1 designates the body of an ordinary bottle. This bottle 1 is provided with a neck 2 constructed of thicker material than the body so as to provide greater strength and render the neck less liable to breakage. The neck 2 is flared toward the body of the bottle, as clearly indicated in the figures of the drawing, and the neck is provided with an annular groove or recess 3. This groove or recess 3 is preferably rounded, and is adapted for the reception of a split spring ring 4'. The ring 4' is adapted to be encompassed within the groove 3 when the ring is compressed.

The numeral 4 designates the cap or closure for the bottle. This cap 4 is constructed substantially as a hood and has its inner face provided with an elongated annular cut away portion 5, while the lower edge of the closure is reduced and flared to correspond with the flared neck of the bottle 1. The closure is also provided with a plurality of vertically extending cut away portions

6, adapted to weaken the closure and to render it easily liable to breakage.

In sealing a bottle constructed in accordance with the present invention, the bottle having been filled and its mouth secured with the ordinary cork 7, the split ring 4' is positioned within the recess 3 of the bottle neck, and the cap 4 placed over the neck until the annular cut away portion 5 coacts with the ring, which immediately springs from the inner wall of the recess 3 and engages with the cut away portion 5, so as to securely retain the cap in engagement with the neck of the bottle, it being understood that the ring 4' is of sufficient thickness to be partially retained within the recess 3.

When it is desired to open the bottle, the cap 4 is pressed downwardly against the neck of the bottle and the weakening depressions 6 effectively assist in breaking the cap so as to allow the withdrawal of the cap from the bottle neck, when access to the contents of the bottle is procured by the removal of the cork 7.

Having thus fully described the invention what is claimed as new is:

The combination with a bottle having a neck constructed stronger than the remainder of the bottle, said neck having a reduced annular groove, a resilient split ring for the groove, a cap constructed of breakable material for the neck of the bottle, said cap being provided with an internal annular cut away portion adapted to engage the split ring and having its lower portion weakened and engaging the portion of the neck of the bottle flaring toward the body thereof, the top wall of the cap being positioned a distance away from the top of the bottle neck, so that the cap may be forced downwardly upon the neck to allow the split ring to ride in the cut away portion and to cause the weakened portion of the cap to be separated from the remainder thereof to allow the said cap to be removed from the bottle neck.

In testimony whereof we affix our signatures in presence of two witnesses.

GEORGE E. SMITH.
CHARLES HAMELL.

Witnesses:

KATHERINE H. BUNDEL,
FRED A. SERVICE.